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OF COUNSEL  
MARIANNE M. DOWNING

January 26, 2006

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

RE: U.S. Patent of Michael E. Zalis  
Patent No.: 6,947,784 *B2*  
Issued on: September 20, 2005  
Entitled: SYSTEM FOR DIGITAL BOWEL SUBTRACTION AND  
POLYP DETECTION AND RELATED TECHNIQUES  
U.S. Appl. No.: 09/828,268  
MGH Ref. No.: MGH 1639  
Our Ref. No.: MGH-005AUS

**Certificate**  
**FEB 02 2006**  
**of Correction**

Dear Sirs:

Enclosed are two completed copies of Form PTO/SB/44. It is requested that a Certificate of Correction be issued to correct the listed mistakes in the above-identified patent.

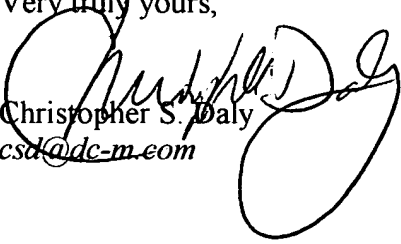
Also enclosed is a check for \$100.00 to cover the cost of the Certificate of Correction in accordance with 37 C.F.R. §1.20(a). If there are any additional fees, please charge Deposit Account 50-0845.

01/31/2006 YPOLITE1 00000048 6947784

01 FC:1811

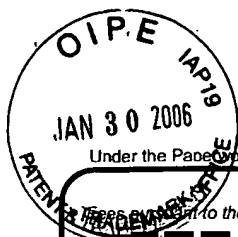
100.00 DP

Very truly yours,

  
Christopher S. Daly  
csd@dc-m.com

CSD/mhw  
Enclosures  
22830.doc

FEB 03 2006



PTO/SB/17 (12-04)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Effective on 12/08/2004.

Fees charged to the Consolidated Appropriations Act. 2005 (H.R. 4818).

**FEE TRANSMITTAL**  
**For FY 2005**☒ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) **100****Complete if Known**

Patent Number	6,947,784 B2
Issue Date	September 20, 2005
First Named Inventor	Michael E. Zalis
Examiner Name	Daniel Leon Robinson
Art Unit	3742
Attorney Docket No.	MGH-005AUS

**METHOD OF PAYMENT** (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_

☐ Deposit Account Deposit Account Number: 50-0845 Deposit Account Name: Daly, Crowley, Mofford & Durkee, LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description	Small Entity	
	Fee (\$)	Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims	Fee (\$)	Fee Paid (\$)
- 20 or HP = 0	x		= 0			
HP = highest number of total claims paid for, if greater than 20						
Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)			
- 3 or HP = 0	x		= 0			
HP = highest number of independent claims paid for, if greater than 3						

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 = 0	/ 50 = 0	(round up to a whole number) x 0	= 0	

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other: Certificate of Correction Fee

Fees Paid (\$)
0
100

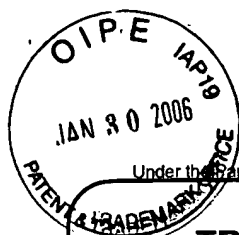
**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent)	37,303	Telephone	781.401.9988 ext. 11
Name (Print/Type)	Christopher S. Daly	Date	26 Jan 06		

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/21 (09-04)

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**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

15

Patent Number

09/828,268

Issue Date

April 6, 2001

First Named Inventor

Michael E. Zalis

Art Unit

3742

Examiner Name

Daniel Leon Robinson

Attorney Docket Number

MGH-005AUS

**ENCLOSURES (Check all that apply)**

Fee Transmittal Form



Fee Attached



Amendment/Reply



After Final



Affidavits/declaration(s)



Extension of Time Request



Express Abandonment Request



Information Disclosure Statement



Certified Copy of Priority Document(s)

Reply to Missing Parts/  
Incomplete ApplicationReply to Missing Parts  
under 37 CFR 1.52 or 1.53

Drawing(s)



Licensing-related Papers



Petition

Petition to Convert to a  
Provisional ApplicationPower of Attorney, Revocation  
Change of Correspondence Address

Terminal Disclaimer



Request for Refund



CD, Number of CD(s) \_\_\_\_\_

☐ Landscape Table on CD

After Allowance Communication to TC

Appeal Communication to Board  
of Appeals and InterferencesAppeal Communication to TC  
Appeal Notice, Brief, Reply Brief

Proprietary Information



Status Letter

Other Enclosure(s) (please identify  
below):Return Postcard;  
PTO/SB/44 Certificate of Correction (2  
sets);  
Letter to Commissioner**Remarks**In the event a petition for extension of time is required by this paper and not  
otherwise provided, such petition is hereby made and authorization is  
provided herewith to charge deposit account No. 50-0845 for the cost of  
such extension.**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name

Daly, Crowley, Mofford &amp; Durkee, LLP

Signature

Printed name

Christopher S. Daly

Date

26 JAN 2006

Reg. No.

37,303

**CERTIFICATE OF TRANSMISSION/MAILING**I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with  
sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on  
the date shown below:

Signature

Mary H. White

Typed or printed name

Mary H. White

Date

26 Jan 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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FEB 03 2006

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,947,784 *B2*  
DATED : September 20, 2005  
INVENTOR(S) : Michael E. Zalis

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 2, line 34 delete "is know" and replace with --is known--.

Column 3, line 2 delete "gradient the" and replace with --gradient, the--.

Column 3, line 18 delete "are found." And replace with --is found.--.

Column 4, line 31 delete "is that does not" and replace with --is that it does not--.

Column 4, line 41 delete "FIGS. 1A-1D a series" and replace with --FIGS. 1A-1D is a series--.

Column 4, line 54 delete "FIGS. 5A is diagrammatic" and replace with --FIG. 5A is a diagrammatic--.

Column 4, line 64 delete "to digital" and replace with --to digitally--.

Column 5, line 8 delete "bowel; and" and replace with --bowel;--.

Column 5, line 26 delete "digital cleanse" and replace with --digitally cleanse--.

Column 5, line 60 delete "eight-bit binary" and replace with --eight bit binary--.

Column 5, line 61 delete "sixteen but binary" and replace with --sixteen bit binary--.

Column 6, line 56 delete "used search for" and replace with --used to search for--.

## MAILING ADDRESS OF SENDER:

DALY, CROWLEY, MOFFORD & DURKEE, LLP  
354A Turnpike Street, Suite 301A  
Canton, MA 02021-2714

PATENT NO. 6,947,784

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FEB 03 2006

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Column 7, line 19 delete "which is know" and replace with --which is known--.

Column 7, lines 60 – 61 delete "which been" and replace with --which has been--.

Column 8, line 21 delete "predetermined with" and replace with --predetermined width--.

Column 8, line 30 delete "seen in untouched" and replace with --seen in the untouched--.

Column 10, line 1 delete "contract agent" and replace with --contrast agent--.

Column 10, line 3 delete "contract agent." and replace with --contrast agent.--.

Column 10, line 10 delete "as show" and replace with --as shown--.

Column 10, lines 34-35 delete "One the should regions" and replace with --Once the shoulder regions--.

Column 11, line 25 delete "show in" and replace with --shown in--.

Column 11, line 45 delete "correspond to bowel" and replace with --correspond to the bowel--.

Column 11, line 50 delete "in which like element" and replace with --in which like elements--.

Column 12, line 7 delete "elements 90a-90." and replace with --elements 90a-90d.--.

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PATENT NO. 6,947,784

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Column 12, line 26 delete "line 92." And replace with --line 92)--.

Column 12, lines 27-28 delete "is selected".

Column 12, line 56 delete "proceed to step 114" and replace with --proceeds to step 114--.

Column 12, lines 59-60 delete "is made as to if any more pixel" and replace with --is made as if any more pixels--.

Column 12, line 63 delete "proceeds to again to step" and replace with --proceed again to step--.

Column 13, line 19 "computationally efficiency." And replace with --computational efficiency--.

Column 13, line 57 delete "180 degrees used" and replace with --180 degrees and used--.

Column 13, line 62 delete "the template must scaled" and replace with --the template must be scaled--.

Column 14, line 6 delete "A conventional techniques" and replace with --A conventional technique--.

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PATENT NO. 6,947,784

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PATENT NO : 6,947,784 *B2*  
DATED : September 20, 2005  
INVENTOR(S) : Michael E. Zalis

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 14, line 9 delete "that that the segmentation step and all of the steps show in" and replace with --that the segmentation step and all of the steps shown in--.

Column 14, line 13 delete "show in FIG. 8" and replace with --Shown in FIG. 8--.

Column 14, line 16 delete "as show" and replace with --as shown--.

Column 14, line 33 delete "region includes a features 150and 152." and replace with --the region includes features 150 and 152.--.

Column 14, line 47 delete "of the of the" and replace with --of the--.

Column 15, line 19 delete "161c-161c" and replace with --161c-161d--.

Column 16, line 40 "Its should" and replace with --It should--.

Column 16, line 58 "t does not" and replace with --it does not--.

Column 17, line 56 delete "applying a air" and replace with --applying air--.

Column 18, lines 11-12 delete "to indicates" and replace with --to indicate--.

Column 18, line 38 delete "processor for aligns" and replace with --processor aligns--.

Column 19, line 18 delete "transition, region" and replace with --transition region--.

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PATENT NO. 6,947,784

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PATENT NO : 6,947,784 *B2*  
DATED : September 20, 2005  
INVENTOR(S) : Michael E. Zalis

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 19, line 35 delete "said a shoulder" and replace with --said shoulder--.

Column 21, line 15 delete "in slope" and replace with --in the slope--.

Column 21, line 18 delete "of the slope of the path" and replace with --in the slope of the path;--.

Column 22, line 17 delete "to produce to an image" and replace with --to produce an image--.

Drawings page 15 of 20, delete "FIGS. 8A-8E" and replace with the attached sheet for --FIGS. 8A-8E--.

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PATENT NO. 6,947,784

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FEB 03 2006

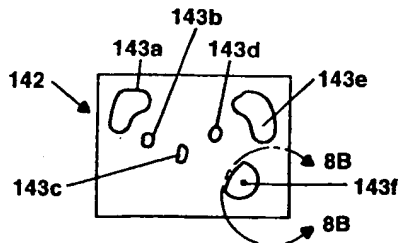


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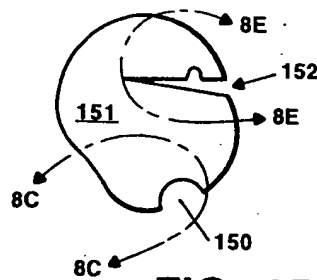
## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,947,784 *B2*  
DATED : September 20, 2005  
INVENTOR(S) : Michael E. Zalis

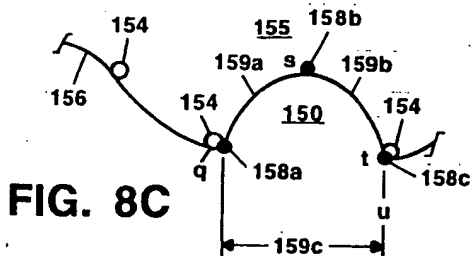
It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:



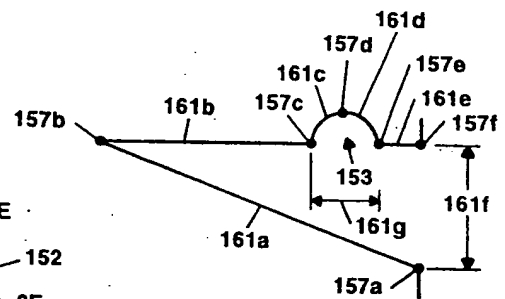
**FIG. 8A**



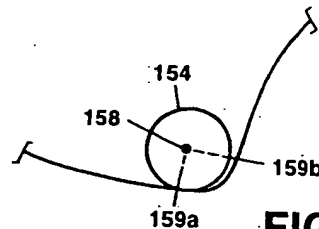
**FIG. 8B**



**FIG. 8C**



**FIG. 8E**



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Column 3, line 2 delete "gradient the" and replace with --gradient, the--.

Column 3, line 18 delete "are found." And replace with --is found.--.

Column 4, line 31 delete "is that does not" and replace with --is that it does not--.

Column 4, line 41 delete "FIGS. 1A-1D a series" and replace with --FIGS. 1A-1D is a series--.

Column 4, line 54 delete "FIGS. 5A is diagrammatic" and replace with --FIG. 5A is a diagrammatic--.

Column 4, line 64 delete "to digital" and replace with --to digitally--.

Column 5, line 8 delete "bowel; and" and replace with --bowel;--.

Column 5, line 26 delete "digital cleanse" and replace with --digitally cleanse--.

Column 5, line 60 delete "eight-bit binary" and replace with --eight bit binary--.

Column 5, line 61 delete "sixteen but binary" and replace with --sixteen bit binary--.

Column 6, line 56 delete "used search for" and replace with --used to search for--.

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Canton, MA 02021-2714

PATENT NO. 6,947,784

No. of additional copies

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,947,784 *82*  
DATED : September 20, 2005  
INVENTOR(S) : Michael E. Zalis

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 7, line 19 delete "which is know" and replace with --which is known--.

Column 7, lines 60 – 61 delete "which been" and replace with --which has been--.

Column 8, line 21 delete "predetermined with" and replace with --predetermined width--.

Column 8, line 30 delete "seen in untouched" and replace with --seen in the untouched--.

Column 10, line 1 delete "contract agent" and replace with --contrast agent--.

Column 10, line 3 delete "contract agent." and replace with --contrast agent.--.

Column 10, line 10 delete "as show" and replace with --as shown--.

Column 10, lines 34-35 delete "One the should regions" and replace with --Once the shoulder regions--.

Column 11, line 25 delete "show in" and replace with --shown in--.

Column 11, line 45 delete "correspond to bowel" and replace with --correspond to the bowel--.

Column 11, line 50 delete "in which like element" and replace with --in which like elements--.

Column 12, line 7 delete "elements 90a-90." and replace with --elements 90a-90d.--.

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354A Turnpike Street, Suite 301A  
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PATENT NO. 6,947,784

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Column 12, line 63 delete "proceeds to again to step" and replace with --proceed again to step--.

Column 13, line 19 "computationally efficiency." And replace with --computational efficiency--.

Column 13, line 57 delete "180 degrees used" and replace with --180 degrees and used--.

Column 13, line 62 delete "the template must scaled" and replace with --the template must be scaled--.

Column 14, line 6 delete "A conventional techniques" and replace with --A conventional technique--.

MAILING ADDRESS OF SENDER:

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## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO : 6,947,784 *B2*  
DATED : September 20, 2005  
INVENTOR(S) : Michael E. Zalis

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 14, line 9 delete "that that the segmentation step and all of the steps show in" and replace with --that the segmentation step and all of the steps shown in--.

Column 14, line 13 delete "show in FIG. 8" and replace with --Shown in FIG. 8--.

Column 14, line 16 delete "as show" and replace with --as shown--.

Column 14, line 33 delete "region includes a features 150and 152." and replace with --the region includes features 150 and 152.--.

Column 14, line 47 delete "of the of the" and replace with --of the--.

Column 15, line 19 delete "161c-161c" and replace with --161c-161d--.

Column 16, line 40 "Its should" and replace with --It should--.

Column 16, line 58 "t does not" and replace with --it does not--.

Column 17, line 56 delete "applying a air" and replace with --applying air--.

Column 18, lines 11-12 delete "to indicates" and replace with --to indicate--.

Column 18, line 38 delete "processor for aligns" and replace with --processor aligns--.

Column 19, line 18 delete "transition, region" and replace with --transition region--.

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PATENT NO : 6,947,784 *B2*  
DATED : September 20, 2005  
INVENTOR(S) : Michael E. Zalis

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 19, line 35 delete "said a shoulder" and replace with --said shoulder--.

Column 21, line 15 delete "in slope" and replace with --in the slope--.

Column 21, line 18 delete "of the slope of the path" and replace with --in the slope of the path;--.

Column 22, line 17 delete "to produce to an image" and replace with --to produce an image--.

Drawings page 15 of 20, delete "FIGS. 8A-8E" and replace with the attached sheet for --FIGS. 8A-8E--.

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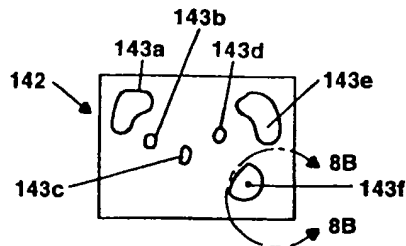
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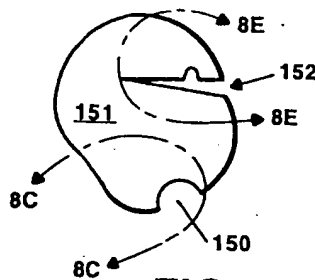
**UNITED STATES PATENT AND TRADEMARK OFFICE**  
**CERTIFICATE OF CORRECTION**

PATENT NO : 6,947,784   
DATED : September 20, 2005  
INVENTOR(S) : Michael E. Zalis

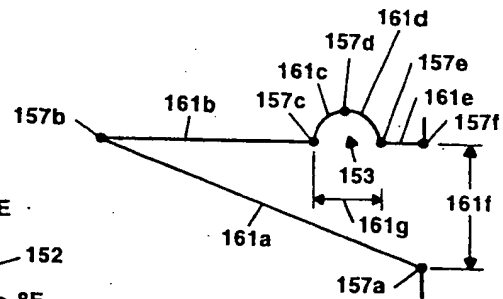
It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:



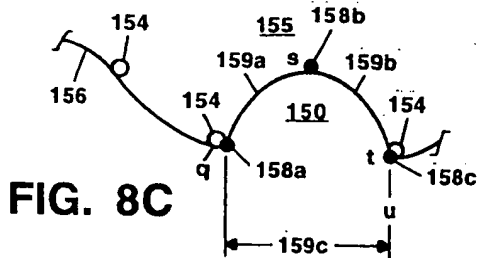
**FIG. 8A**



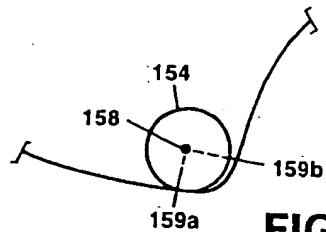
**FIG. 8B**



**FIG. 8E**



**FIG. 8C**



**FIG. 8D**

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